

Intex 28685E

Intex 28685E Solar Pool Water Heater Mat Instruction Manual

1. SAFETY INFORMATION

Please read and understand all instructions before installing and using this product. Failure to follow these instructions may result in property damage or injury.

- Assembly and disassembly should only be performed by adults.
- Always supervise children around the pool area.
- Ensure all connections are secure to prevent leaks.
- Do not operate the solar mat if it is damaged.
- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit www.P65warnings.ca.gov.

2. PRODUCT OVERVIEW

The Intex 28685E Solar Pool Water Heater Mat utilizes solar technology to efficiently increase the temperature of your above-ground pool water. Designed for ease of use and compatibility with most Intex filter pumps, this mat provides an economical way to enjoy warmer pool water.

Key Features:

- Solar technology for heating pool water by approximately 5 to 9 degrees Fahrenheit, depending on weather conditions.
- 11-square-foot surface area for optimal sun ray absorption.
- Constructed from heavy-duty UV stabilized PVC for durability.
- Designed for above-ground pools up to 8,000 gallons.
- Folds compactly for convenient off-season storage.

Components Included:

- 1 Solar Heater Mat
- 1.25-inch hose attachment point
- Bypass valve
- 1 Adaptor A for 1.50-inch hose connection
- 1 Adaptor B for 1.50-inch hose connection



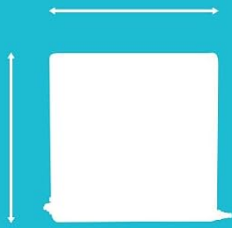
Figure 1: Intex Solar Pool Water Heater Mat in operation.

Solar Heat Mat *PARTS*



Figure 2: Key components of the Solar Heat Mat.

Solar Heat Mat *SPECS*



Dimensions

47.25in X 47.25in
(flat, before fill)



Water Heater

Increases water
temperature by 5-9°F



Pool Suitability

Above ground pools up to
8,000 gal / 11ft sq surface



Filter Compatibility

Filter pumps up to 1/3 HP or
pump flow rate < 2,000 gal/hr

INTEX®

Figure 3: Product specifications and compatibility.

3. SETUP AND INSTALLATION

Proper installation ensures optimal performance and safety of your solar water heater mat.

3.1 Placement:

- Position the solar mat in an area that receives maximum direct sunlight throughout the day.
- Ensure the mat is on a flat, stable surface, free from sharp objects that could puncture the material.

3.2 Connecting to Your Pool System:

1. Ensure your filter pump is turned off and unplugged before beginning installation.

2. Connect one end of a 1.25-inch hose (not included) to the outlet of your filter pump.
3. Attach the other end of this hose to the inlet of the solar heater mat using the provided 1.25-inch hose attachment point. If your pump uses 1.50-inch hoses, use the appropriate Adaptor A or B.
4. Connect a second 1.25-inch hose (not included) to the outlet of the solar heater mat.
5. Attach the other end of this second hose to the pool's water return inlet.
6. Utilize the bypass valve to control water flow through the solar mat. This allows you to direct water either through the mat for heating or bypass it when heating is not desired.



Figure 4: Multiple solar mats connected for increased heating.

3.3 Multiple Mat Connection:

For larger pools or enhanced heating, multiple solar mats can be connected in series. Refer to the table below for recommended quantities based on pump flow rate.

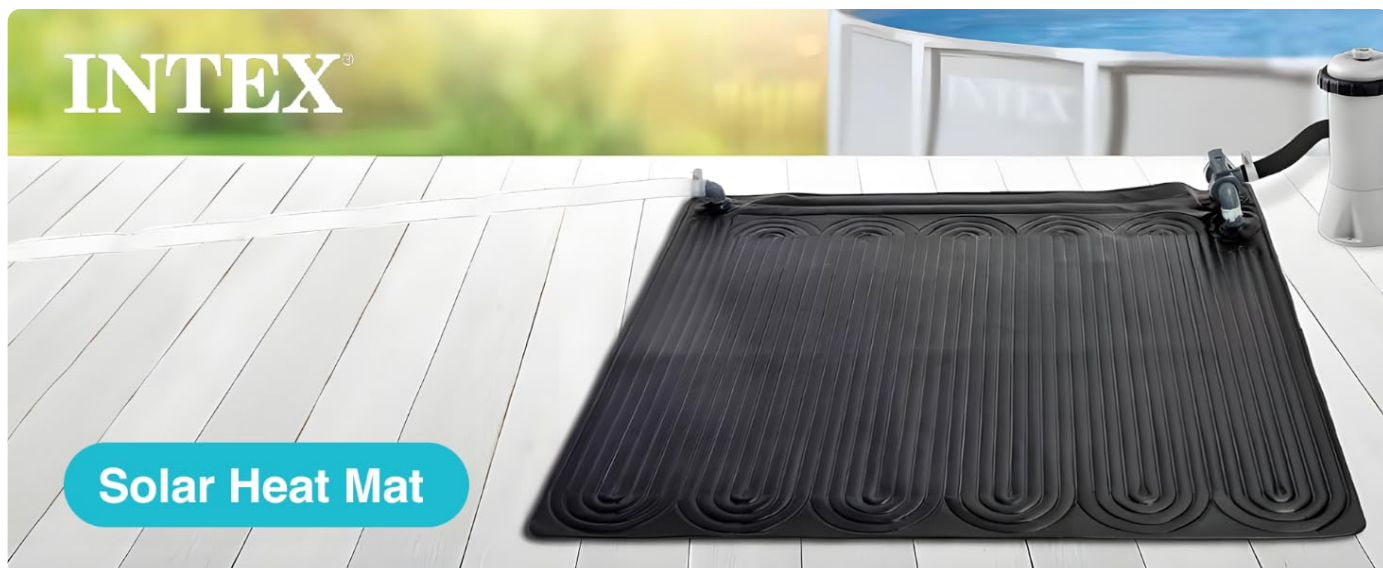


Figure 5: Solar Mat Reference Guide for pump compatibility.



Figure 6: Hose attachment point.

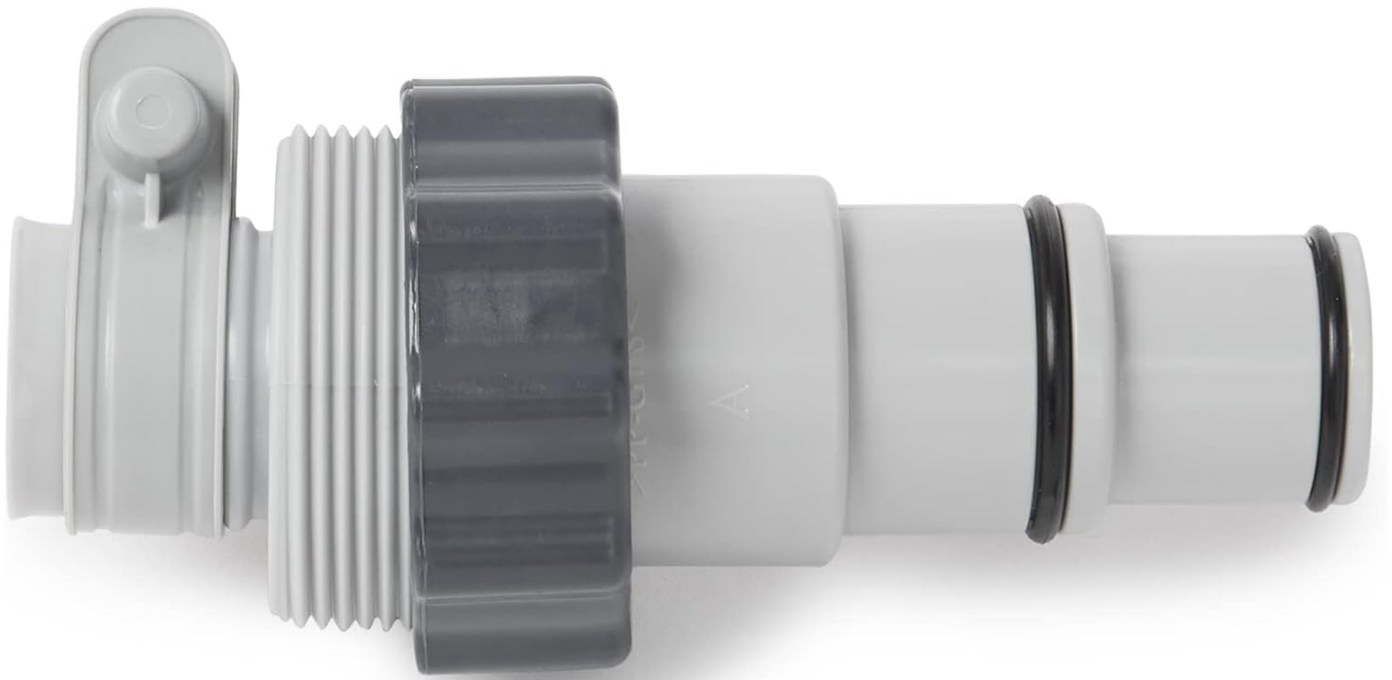


Figure 7: Adaptor for 1.50-inch hose connection.



Figure 8: Bypass valve for flow control.

4. OPERATION

Once installed, operating your solar water heater mat is straightforward.

1. After ensuring all connections are secure and the mat is properly positioned, turn on your filter pump.
2. Adjust the bypass valve to direct water flow through the solar mat. Water will circulate from your pool, through the mat where it absorbs solar heat, and then return to the pool.
3. The mat is designed to increase water temperature by 5 to 9 degrees Fahrenheit, depending on the intensity and duration of sunlight.
4. For optimal heating, operate the mat during peak sunlight hours.
5. When heating is not desired, or during periods of low sunlight, adjust the bypass valve to divert water away from the

solar mat.

5. MAINTENANCE

Regular maintenance will prolong the life and efficiency of your solar water heater mat.

- **Cleaning:** Periodically inspect the mat for debris (leaves, dirt) and gently clean the surface with water and a soft brush if necessary. Avoid harsh chemicals or abrasive cleaners.
- **Leak Inspection:** Regularly check all hose connections and the mat itself for any signs of leaks. Tighten connections as needed.
- **Winter Storage:** Before freezing temperatures arrive, disconnect the mat from your pool system. Drain all water from the mat and hoses. Clean and dry the mat thoroughly. Fold the mat for compact storage in a dry, protected area away from direct sunlight and extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your solar water heater mat, refer to the following common troubleshooting steps:

6.1 Insufficient Heating:

- **Sunlight Exposure:** Ensure the mat receives maximum direct sunlight throughout the day. Relocate if necessary.
- **Pump Flow Rate:** Verify your filter pump's flow rate is within the compatible range (less than 2,000 GPH). An insufficient flow rate can reduce heating efficiency.
- **Bypass Valve Position:** Confirm the bypass valve is set to direct water through the solar mat.
- **Multiple Mats:** For larger pools, consider adding additional solar mats to increase the heating surface area.

6.2 Leaks:

- **Hose Connections:** Check all hose connections for tightness. Ensure O-rings are properly seated and not damaged.
- **Mat Damage:** Inspect the mat surface for any punctures or tears. Small holes may be repairable with a vinyl repair kit (not included).

6.3 Reduced Water Flow:

- **Obstructions:** Check hoses and the mat for any blockages or kinks that might restrict water flow.
- **Filter Pump:** Ensure your filter pump is operating correctly and its filter cartridge is clean.

7. SPECIFICATIONS

Feature	Specification
Model Number	28685E
Dimensions (L x W)	47.25 x 47.25 inches (flat)
Surface Area	11 square feet
Weight	5.3 Pounds
Material	Heavy-duty UV stabilized PVC
Pool Capacity Compatibility	Up to 8,000 gallons (above-ground pools)
Filter Pump Compatibility	Up to 1/3 HP or flow rate less than 2,000 GPH
Included Components	1 Solar Heater Mat, 1.25-inch hose attachment point, bypass valve, 1 adaptor A, 1 adaptor B

8. WARRANTY AND SUPPORT

The Intex 28685E Solar Pool Water Heater Mat is covered by a manufacturer's warranty. For specific details regarding the warranty period and terms, please refer to the warranty information provided with your product packaging or contact Intex Recreation Corp directly.

Manufacturer: Intex Recreation Corp

For customer support, product registration, or to inquire about replacement parts, please visit the official Intex website or contact their customer service department.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question